Graflex

xl camera

systems

xl Camera Guidebook

The camera
you want today…
with everything
you'll need tomorrow

The Graflex xl Camera Systems: photography's first complete and truly flexible system. It gives you virtually unlimited versatility for all photographic assignments . . . sports, news, industrial, portrait, fashion, macrophotography, even photocopying.

And your new easy-handling xl camera body is the cornerstone of the Graflex xl Camera Systems. With this precision-engineered camera as a base, you can work with any combination of xl backs and accessories . . . and you have the flexibility to custom-build the type of camera system you've always wanted.

There are three xl camera bodies:

xlrf
(with rangefinder)

xl standard
(without rangefinder)

xlsw
(super wide angle body)

Attaching lenses to xl camera bodies

1. Lenses attach to the bayonet mount and focusing ring. Simply rotate the focusing ring counterclockwise until it stops. Depress the release button, hold, and continue to rotate the ring until the interior guides and the interior lugs align.

2. To insert the lens barrel, line up the red dot on the focusing ring with the red dot on the lens barrel. Seat the lens barrel into the mount as far as it will go.

3. Once the barrel is placed in the mount, turn the focusing ring clockwise to secure it. Continue to rotate the focusing ring clockwise until it stops at the infinity position.

4. To remove the lens barrel, rotate the focusing ring counterclockwise until it stops. Depress the release button. And again, rotate the focusing ring counterclockwise until it stops. Remove the lens barrel.
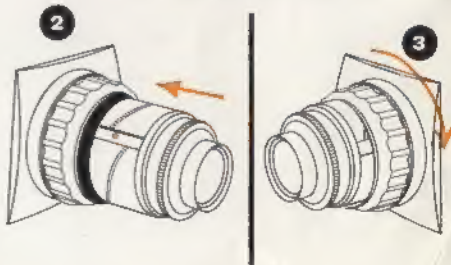
Attaching backs and accessories to xl camera bodies

The back of the xl camera body has easy-mounting, snap-lock openings (Figure 1). All xl backs and accessories, including the xl Graflok® back, xl Polaroid* pack film holder, xl RH/50 roll film holder have four corresponding metal posts which fit into these snap-lock openings.

To attach backs or accessories to the xl camera back, align the four metal posts with the four snap-lock openings in the camera body. Press accessory into place on camera back. Secure and lock by sliding the locking cones on both sides of camera downward.

To remove the mounted accessory, reverse the process. Slide the locking cones upward — hold — and remove the accessory.

There are two recommended ways to fasten shoulder strap to camera.

The first way is to thread the strap through the outside of the buckle and pass free end through the handle lug or mounting bracket (Fig. 1). Bring the strap end back through the same slot in the buckle, over the middle brace and


up through the other side (Fig. 2 and Fig. 3). This provides you with a non-slip knot and an adjustable loop for extra camera-carrying convenience.
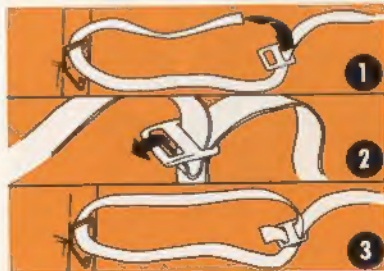
The second recommended way is to thread the strap through the outside slot, over the middle brace and up through the inside slot, forming a loop. Now pass the strap through the camera handle lug or mounting bracket (Fig. 4). Bring the strap back through the slots, inside slot first, over the brace, then through outside slot (Fig. 5 and Fig. 6).

For final adjustment, pull strap tight. This provides a tight, non-slip grip for shoulder carrying.
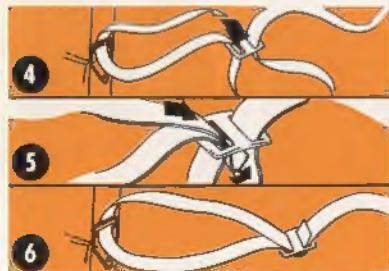
xlrf (with rangefinder)

Synchronizing rangefinder & lens

With the lens set at infinity, press down on the infinity setting button (see Figure 1). This gives you proper synchronization between the rangefinder and the mounted lens. And it eliminates the variations incurred within normal camera manufacturing tolerances.

Rangefinder Focusing

As you begin to focus on the subject, it appears as a double, overlapping image. To bring the subject into exact focus, rotate the focusing ring until you see only one, crisp, single image.

For picture composition and focusing, hold the xlrf Rangefinder at a comfortable viewing distance from your eye. If you wear glasses, you can rest the Rangefinder against the eyeglass lens. However, for greatest accuracy and freedom from distracting light, we recommend the easily attached Graflex Eye Shield (Cat. No. 7360).
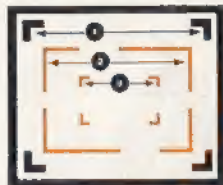

Areas of View

For the 80, 100 and 180mm lenses, the areas of view provided by the xl rangefinder represent 90% of the actual picture size—at infinity.

These areas have been established for the more widely used 2¼" x 2¾" picture area.

As you look through the rangefinder, you see three areas of view:

1. The large, outside, floating-line frame. This area indicates the ideal format size for the 80mm lens.

2. The middle floating-line frame. This represents the ideal format area for the 100mm lens.

3. The small, inside, floating-line frame. This is the ideal format area for 180mm lenses.

Parallax

The xl camera automatically corrects parallax in all areas of view.

xl standard
(without rangefinder)

The adaptable, custom-designed xl standard is ideally suited for tripod use. But, with the xl sportsfinder attached, it suddenly becomes an on-the-go, easy-to-use, top-performing hand held camera.

Attaching lenses, backs and accessories

For the xl standard, the method of attaching lenses, backs and accessories is identical to that used for the xlrf (with rangefinder).

Focusing

To focus the xl standard, simply estimate the distance from camera to subject. Then turn the focusing ring until the white index mark aligns with the footage mark on the lens barrel.

Or you can focus with the ground glass in one of the three xl focusing panels.

Shown:
xl standard
camera with lens,
cable release
and sportsfinder.

xlsw (super wide angle body)

The unique and versatile xlsw, designed expressly for wide angle photography, is used with the xl 47mm extreme wide angle lens. With the addition of spacers, lenses, backs and accessories, you can easily and successfully use the xlsw for all kinds of photographic assignments—including extreme close-up photography.

Attaching lenses, backs and accessories

For the xlsw wide angle camera, use the same method of attaching barrel-lens units and backs or accessories as described for the xlrf (with rangefinder).

Focusing

To focus the xlsw, simply estimate the distance from camera to subject. Then turn the focusing ring until the white index mark lines up with the footage mark on the lens barrel.

Or you can focus with the ground glass in one of the three xl focusing panels.

Shown:
xlsw camera
with lens, sportsfinder,
film holder and Graflok® back.

This is the beginning of a bright new world of photographic professionalism for you.

The modular world of Graflex xl
the most versatile, most original medium-format
camera system you'll ever use. The following pages
show you the latest precision-matched xl components
(more detailed information is available
in the individual xl guidebooks).

xl Lenses

xl lenses are the products of the world's most honored optical firms, Zeiss, Rodenstock and Schneider They feature full-sync Compur shutters, highly-corrected, high resolution optics, and factory-calibrated cams for rangefinder focusing mounted in precision-matched barrels with individual footage scales

Lens 47mm Schneider Super Angulon f/8 extreme wide angle (for use in Super Wide Camera only)
Shutter: MXV-00 Synchro-Compur with 1/500 sec top speed
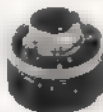
47mm Schneider Super Angulon f/8

Lens 58mm Rodenstock Grandagon f/5.6 wide angle
Shutter: MXV-00 Synchro-Compur with 1/500 sec top speed

58mm Rodenstock Grandagon f/5 6

Lens 95mm Rodenstock Ysarex f/3 5
Shutter: MXV-0 Synchro-Compur with 1/500 sec top speed
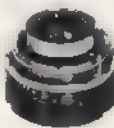
95mm Rodenstock Ysarex f/3 5

Lens 100mm Zeiss Tessar f/3 5
Shutter: MXV-0 Synchro-Compur with 1/500 sec top speed

100mm Zeiss Tessar f/3.5

Lens 80mm Zeiss Planar f/2 8
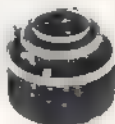**Shutter:** MX-1 Synchro-Compur with 1/400 sec top speed

80mm Zeiss Planar f/2 8

Lens 80mm Rodenstock Heligon f/2 8
Shutter: x Compur with 1/500 sec top speed

80mm Rodenstock Heligon f/2 8

Lens 95mm Rodenstock Heligon f/2 8
Shutter: MX-1 Synchro-Compur with 1/400 sec top speed

95mm Rodenstock Heligon f/2 8

Lens 100mm Zeiss Planar f/2.8
Shutter: MX-1 Synchro-Compur with 1/400 sec top speed

100mm Zeiss Planar f/2.8

Lens 150mm Rodenstock Ysarex f/4 5
Shutter: xl Compur 1/400 sec top speed

150mm Rodenstock Ysarex f/4 5

Lens 180mm Zeiss Sonnar f/4 8
Shutter: MXV 0 Synchro-Compur with 1/400 sec top speed

180mm Zeiss Sonnar f/4 8

Lens: 270mm Rodenstock Rotelar f/6.6
**Shutter:** xl Compur 1/500 sec top speed

270mm Rodenstock Rotelar f/6 6

xl Graflok Back

The xl Graflok® Back, although an optional accessory, is actually an indispensable component for nearly all types of photo-applications. You'd need the Graflok® Back for attaching all xl focusing panels and most x Film Holders.

xl Focusing Panels

There are three different models to meet the varying requirements of your assignments. Each one requires the use of a Graflok® Back.
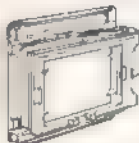
Focusing Panel with Limit Lines

Rugged performer for general assignments. Limit lines define 2¼" x 2¾" idea format and 2¼" x 2¼" square format. It lets you define composition and format before you shoot. Especially suited for use with a magnifier.

Focusing Panel with Ektalite and Limit Lines

Gives you bright, clear details even at the edges of the frame. Limit lines define 2¼" x 2¾" ideal format and 2¼" x 2¼" square format. It collects and distributes available light evenly.

Focusing Panel with Ektalite and Grid Lines

This panel is especially recommended for critical composition. The grid lines help you make a critical image analysis and help you identify and minimize distortions. These lines are a constant reference for judging parallel lines, size relationships and image placement.

xl Viewing Hood

All-metal, detachable, compact. Features four-sided light-seal design. Attaches to an xl Focusing Panel.

Rapid-Vance RH/8, RH/10, RH/12, RH/20 Roll Film Holders

Versatile film holders for a wide variety of picture-taking needs. They attach to the Graflok° Back. They feature quick-action advance levers. You can interchange them any time—even in mid-roll. And they can be used for either right or left hand operation.

Special features of each Roll Film Holder:

RH 8 Gives you 8 exposures in 2¼" x 3⅛" formation 120 roll film

RH 10 Lets you get 10 exposures in 2¼" x 2¾" format on 120 roll film.

RH 12 Provides 12 exposures in 2¼" x 2¼" square format on 120 roll film.

RH 20 This holder gives you 20 exposures in 2¼" x 2¾" on 220 roll film
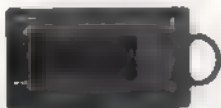
RH/50 Roll Film Holder

Another remarkable Rapid Vance Roll Film Holder, the RH 50, gives you 50 exposures on every roll of 70mm perforate or non-perforate roll film. It features thumb-action advance lever for fast easy shooting. With the dark slide, you can interchange film holders at any time even in mid-roll. Light tight cassettes let you cut and remove exposed film.
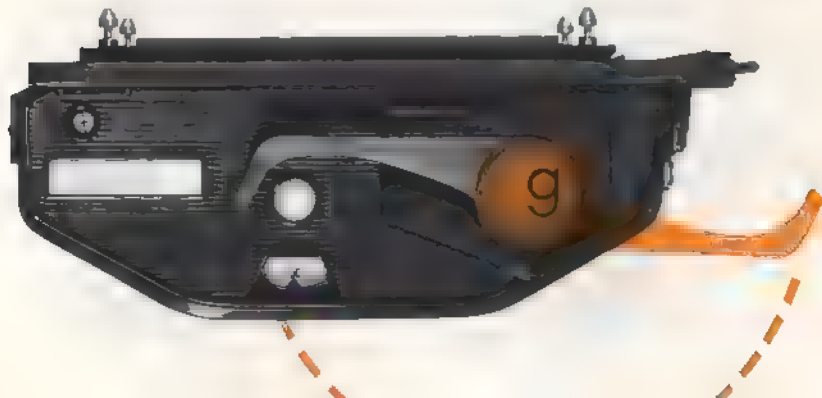
Sheet Film Holders

Grafmatic® Sheet Film Holder

Here's an ideal holder for most film ng assignments. Used with the Graflok® Back. Holds six individual sheets of film '23" — 2" x 3¹⁄₁₆' on 2¼" x 3¼" film. Exposure counter records exact number of exposures taken. Red indicator tells if film is ready for exposure or covered. Dark slide lets you change holders anytime

Graphic Sheet Film Holder

Recommended for assignments requiring immediate processing. Used with the Graflok® Back. It holds 2 sheets of film and gives you exposures in 2¼" x 3¼" format. Can be attached for right or left hand use.

Graphic Film Pack Adapter

For greatest picture-taking convenience and lowest film cost. Used with Graflok® Back. Gives you 16 exposures in 2¼" x 3¼" film format. Plus daylight loading. And the dark slide lets you interchange holders fast.
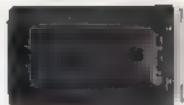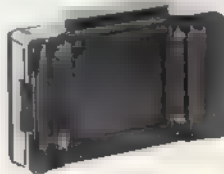

Polaroid* Pack Film Holder

Enjoy all the advantages of Polaroid picture taking — Get color prints in just 60 seconds . black and white in 10! The Polaroid Pack Film Holder attaches directly to the xl camera body. You can use all series 100 Polaroid film. Attaches for right or left hand use.
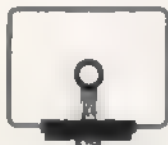

*Reg. T.M. Polaroid Corp

Action Photo Components

xl Sportsfinders

Take in all the action with Sportsfinder viewing. Precision coordinated pop-up peepsight is adjustable for parallax control. To attach, slide the metal rails of Sportsfinder into grooves of mounting shoe on camera body.

Wide Frame to be used with the 47mm wide angle lens on the xlsw camera.

Standard Frame to be used with all lenses from 58mm to 180mm on the xl standard and xlrf cameras (Ideal format negative sizes)

Sportsfinder Masks

Now — extra viewing precision for the professional photographer. Four masks cover the entire range of film format sizes and lenses. Mask snaps on to wire frame of Sportsfinder. Lets you frame your shots according to the film format and lens you're using.

For xlrf and xls (RH/10, RH/20 RH 50)
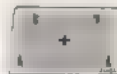
For xlrf and xls (RH/12)

For xlrf and xls (Polaroid*)

For xlsw (Polaroid*)

*Reg. T.M. Polaroid Corp.

Multi-Grip

The biggest news in camera-handling ease and convenience, the new Multi-Grip is available in two models:

1. Right hand mount

2. Left hand mount

Either model lets you mount camera body on tripod adapter. Hand-contoured Multi-Grip rotates to any desired angle whether side mounted or top mounted. Comes complete with cable release, tripod socket adapter and side mounting bracket.

Quick Focus Lever

Easy-to-attach, easy-to-operate the Quick Focus Lever puts the focusing control right at your fingertips. Gives you extra convenience for assignments that demand fast and accurate focusing.

Lens Shade

One Lens Shade for all lenses. Its special design eliminates light cut-off even with wide angle lenses. Additionally, it keeps the whole field in view. Thread the Lens Shade into the front thread on the adapter ring. The Lens Shade acts as its own retainer and will nest the filter between the adapter ring and the Lens Shade.

STILL PHOTO COMPONENTS

Adapter Rings

Four basic Adapter Rings will fit all xl lenses and will accept all series 8 filters. Thread the Adapter Ring directly onto the lens mount.

Spacers

These metal inserts let you extend the length of your camera. They are especially useful for obtaining special effects, for macro-photography, and for 1:1 relation pictures. Use in multiples to get the desired "bellows extension." The spacers attach directly to the back of the camera body in the same way as the Graflok® Back (see p. 13).
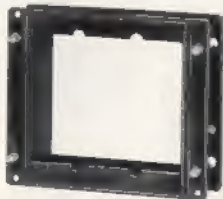
Retainer Ring

One Retainer Ring fits all adapter rings. Place any series 8 filter into the adapter ring and hold in place by threading the Retainer Ring into the adapter ring. A single filter on any combination of two filters can be used. If a lens shade is being used, it is not necessary to use the Retainer Ring.

xl Flash Bracket

Attaches to left or right of xl camera. Permits use of Graflite flash equipment or Stroboflash mounting tube with heavy duty clamps. Exclusive strain relief cord is anchored to the bracket to remove all possible strain from the shutter contact when moving the flash. Requires use of ASA double post shutter cord (2701 20 inch straight flash cord or 2810 36 inch expand-o-cord).

Sky 1A Filters

Four different sizes cover all xl lenses. Crafted of thermo-bonded, high-quality optical glass, they give better contrast in black and white and color photographs. They require no change in exposure or color balance. Each filter has its own built-in adapter ring and retainer ring. These filters may be left in place to protect the lens from smudges or dirt.

For 40.5mm thread

For 49mm thread

For 58mm thread

For 67mm thread

Series 8 Filters

These are made of the highest quality thermo-bonded, optical glass.

Yellow: cloud contrast against blue sky

Orange: more contrast—darker blues

Red: strong cloud contrast—darker blues, greens

Green: outdoor portraiture—flesh tones

85: for Kodacolor, Agfacolor—with flash

85B: for type B color films in daylight

85C: for color film in daylight—prints in custom labs.

Cable Release Kits

Used with all three xl cameras when tripod mounted. These easy-to-install kits include cable release, holder and attaching screw.

Typical xl systems

Graflex xl—a new professionalism—lets you put together your kind of camera—tailored to your needs only—as individual as your own style of photography!

Graflex xl is a series of precisely matched components for the professional photographer . . . in any field: industrial, aerial, wedding, press . . . any field!

Graflex xl is for the professional who knows exactly what he wants! With Graflex xl you select the precise components to build a professional system of photography — with the features you want—the performance you need!

And you'll always be able to add to your basic xl system. Because there's virtually no limit to the flexibility of Graflex xl.

Industrial   Wedding   Scientific and Technical   Sports   Press